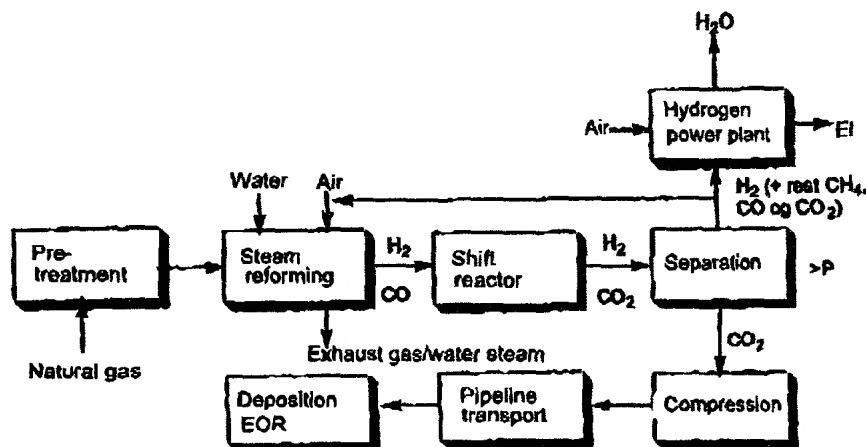


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(21) International Application Number: PCT/NO99/00280 (22) International Filing Date: 14 September 1999 (14.09.99) (30) Priority Data: 19984295 16 September 1998 (16.09.98) NO (71) Applicant (for all designated States except US): DEN NORSKE STATS OLJESELSKAP A.S [NO/NO]; N-4035 Stavanger (NO). (72) Inventors; and (75) Inventors/Applicants (for US only): OLSVIK, Ola [NO/NO]; Haukv. 18, N-7562 Hundhammeren (NO). HANSEN, Roger [NO/NO]; Sildræpve, 70B, N-7048 Trondheim (NO). GRISLINGÅS, Arne [NO/NO]; Ole Nordgaardsvei 36B, N-7049 Trondheim (NO). RYTTER, Erling [NO/NO]; Steinåsen 19, N-7049 Trondheim (NO). (74) Agent: BRYN & AARFLOT AS; P.O. Box 449 Sentrum, N-0104 Oslo (NO).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> <i>In English translation (filed in Norwegian).</i>	

(54) Title: PROCESS FOR PREPARING A H₂-RICH GAS AND A CO₂-RICH GAS AT HIGH PRESSURE

shows known technique in the form of steam reforming with hydrogen firing

(57) Abstract

The present invention comprises a method for production of a CO₂-rich gas stream and a H₂-rich gas stream, the method comprising the following steps: a) natural gas and water are fed to a reforming reactor and are converted to synthesis gas under supply of a O₂-containing gas; b) the gas stream from a) is shifted, whereby the content of CO is reduced and the amounts of CO₂ and H₂ are increased by reaction of H₂O; c) the gas stream from b) is separated in a separation unit into a CO₂-rich and a H₂-rich gas stream, respectively. The invention also concerns the use of a CO₂-rich gas stream for injection into marine formations, and the use of a H₂-rich gas stream for hydrogenation, as a source of energy/fuel in fuel cells or for production of electricity.